

ABSTRACT

In order to implement a solid-state imaging device with high photo-sensitivity that includes a light collecting part which can
5 reduce undesired variations during manufacture and which has high light collection efficiency, the solid-state imaging device includes: a photodiode (8) which converts incident light (13) into electric charges; a convex lens layer (15) which is formed above the photodiode (8) and through which the incident light is transmitted;
10 and a concavo-convex lens layer (11) which is formed on and around the lens layer (15) and which collects the incident light and outputs the incident light to the lens layer (15). A refractive index of the lens layer (15) is greater than a refractive index of the lens layer (11). A thickness and a width of the lens layer (15) are set to
15 achieve a predetermined focal length for light of a predetermined wavelength range. The lens layer is made of one of boron phosphorous silicon glass, tetra ethoxy silane, benzocyclobutene, and polyimide resin.